

# Section C Membranes and transport

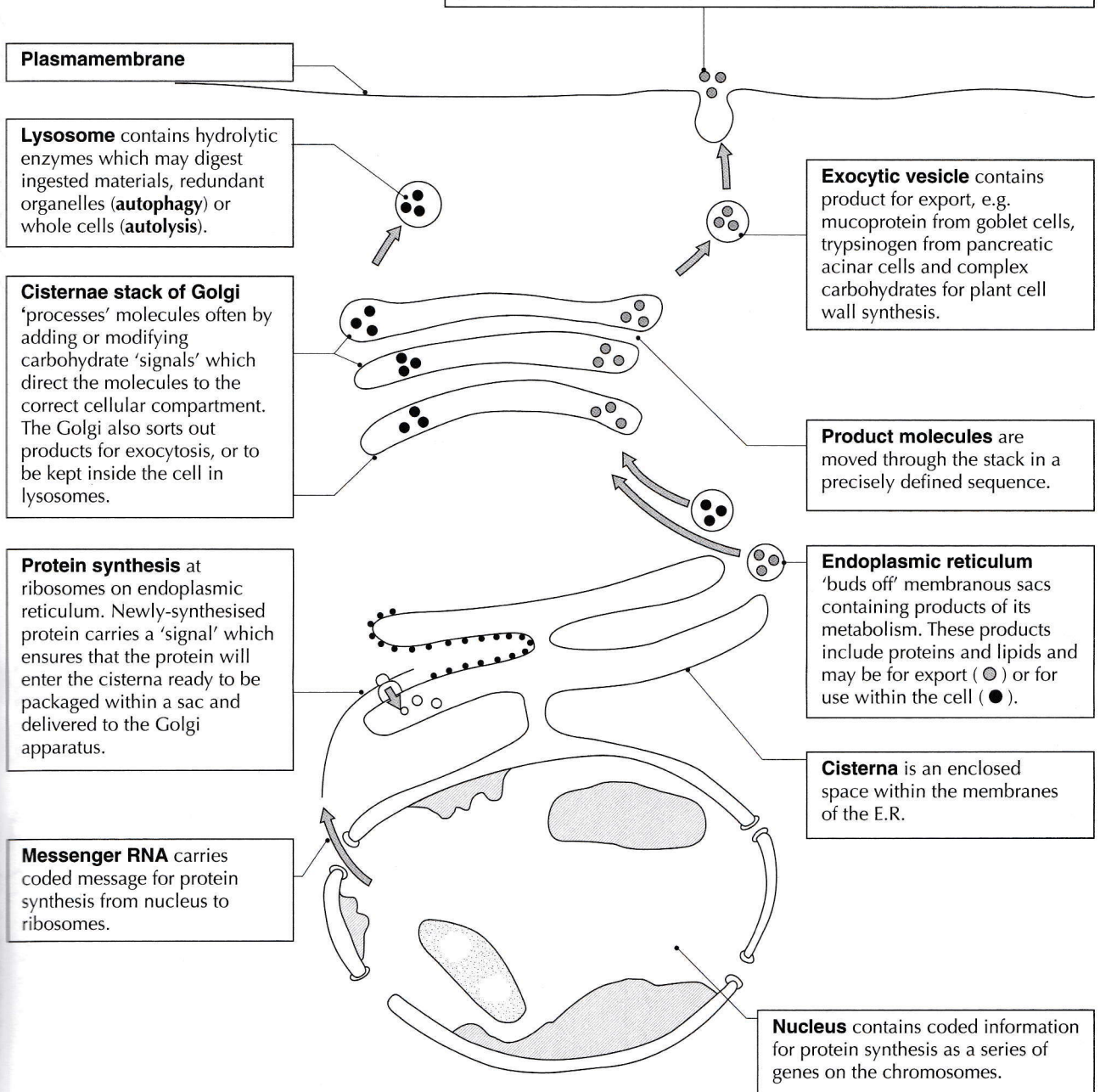
## Cell membranes and organelles

are involved in the production and secretion of proteins.

Large molecules such as proteins cross membranes by a process called CYTOSIS. Energy (as ATP) is needed, and the process is made possible by the flexibility of the membrane.

**Exocytosis:** a vesicle containing the molecule fuses with the inside of the plasmamembrane and the molecule is expelled.

**Endocytosis:** the membrane recognises and binds to a molecule in its environment. The fluid membrane then forms a vesicle (sac) around the molecule, and the sac enters the cell. Phagocytosis (uptake of solids) and pinocytosis (uptake of fluids) are examples of endocytosis.



### Outline of protein synthesis

DNA in nucleus → mRNA: moves to ribosomes → protein

TRANSCRIPTION

TRANSLATION